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				aga Arg												144
				aat Asn												192
				cgt Arg												240
				gag Glu 85												288
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cag Gln	ttg Leu	cca Pro 115	tca Ser	ccc Pro	act Thr	gca Ala	acc Thr 120	agc Ser	cag Gln	ctc Leu	ccg Pro	ctc Leu 125	gaa Glu	tct Ser	gat Asp	384
gct Ala	gtg Val 130	gaa Glu	tgc Cys	tta Leu	aat Asn	tac Tyr 135	caa Gln	cac His	tat Tyr	aaa Lys	gga Gly 140	agt Ser	gac Asp	ttt Phe	gac Asp	432
tgc Cys 145	gag Glu	ttg Leu	agg Arg	ctg Leu	ttg Leu 150	Ile	cat His	cag Gln	agt Ser	cta Leu 155	Ala	gga Gly	gga Gly	att Ile	att Ile 160	480
Gly ggg	gtc Val	aaa Lys	ggt Gly	gct Ala 165	aaa Lys	att Ile	aaa Lys	gaa Glu	ctt Leu 170	Arg	gag Glu	aac Asn	act Thr	caa Gln 175	acc Thr	528
acc Thr	atc Ile	aag Lys	ctt Leu 180	ttc Phe	cag Gln	gaa Glu	tgc Cys	tgt Cys 185	Pro	cat His	tcc Ser	act Thr	gac Asp 190	Arg	gtt Val	576
gtt Val	ctt Leu	att Ile 195	Gly	gga Gly	aaa Lys	ccc Pro	gat Asp 200	Arg	gtt Val	gta Val	gag Glu	tgc Cys 205	Ile	aag Lys	atc Ile	624
atc Ile	ctt Leu 210	Asp	ctt Leu	ata Ile	tct Ser	gag Glu 215	Ser	ccc Pro	ato Ile	aaa Lys	gga Gly 220	Arg	gca Ala	cag Gln	cct Pro	672
tat Tyr 225	Asp	ccc Pro	aat Asn	ttt Phe	tac Tyr 230	Asp	gaa Glu	acc Thr	tat Tyr	gat Asp 235	туг	ggt Gly	ggt Gly	ttt Phe	aca Thr 240	720

						cgc Arg										768
						aga Arg										816
_				_	_	gat Asp		-	-							864
						gga Gly 295										912
						cca Pro										960
atg Met	gcc Ala	tat Tyr	gac Asp	aga Arg 325	aga Arg	gjå aaa	aga Arg	cct Pro	gga Gly 330	gac Asp	cgt Arg	tac Tyr	gac Asp	ggc Gly 335	atg Met	1008
gtt Val	ggt Gly	ttc Phe	agt Ser 340	gct Ala	gat Asp	gaa Glu	act Thr	tgg Trp 345	gac Asp	tct Ser	gca Ala	ata Ile	gat Asp 350	aca Thr	tgg Trp	1056
agc Ser	cca Pro	tca Ser 355	gaa Glu	tgg Trp	cag Gln	atg Met	gct Ala 360	tat Tyr	gaa Glu	cca Pro	cag Gln	ggt Gly 365	ggc	tcc Ser	gga Gly	1104
Tyr	Asp 370	Tyr	Ser	Tyr	Ala	999 Gly 375	Gly	Arg	Gly	Ser	Tyr 380	Gly	Asp	Leu	Gly	1152
Gly 385	Pro	Ile	Ile	Thr	Thr 390		Val	Thr	Ile	Pro 395	Lys	Asp	Leu	Ala	Gly 400	1200
tct Ser	att Ile	att Ile	ggc Gly	aaa Lys 405	ggt Gly	ggt Gly	cag Gln	cgg Arg	att Ile 410	Lys	caa Gln	atc Ile	cgt Arg	cat His 415	gag Glu	1248
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tat Tyr	ttg Leu 450	Leu	cag Gln	aac Asn	agt Ser	gtg Val 455	Lys	cag Gln	tat Tyr	tct Ser	gga Gly 460	Lys	ttt Phe	ttc Phe	taa	1392

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- Phe Lys Arg Ser Arg Asn Thr Asp Glu Met Val Glu Leu Arg Ile Leu 35 40 45
- Leu Gln Ser Lys Asn Ala Gly Ala Val Ile Gly Lys Gly Gly Lys Asn 50 60
- Ile Lys Ala Leu Arg Thr Asp Tyr Asn Ala Ser Val Ser Val Pro Asp 65 70 75 80
- Ser Ser Gly Pro Glu Arg Ile Leu Ser Ile Ser Ala Asp Ile Glu Thr 85 90 95
- Ile Gly Glu Ile Leu Lys Lys Ile Ile Pro Thr Leu Glu Gly Leu 100 105 110
- Gln Leu Pro Ser Pro Thr Ala Thr Ser Gln Leu Pro Leu Glu Ser Asp 115 120 125
- Ala Val Glu Cys Leu Asn Tyr Gln His Tyr Lys Gly Ser Asp Phe Asp 130 135 140
- Cys Glu Leu Arg Leu Leu Ile His Gln Ser Leu Ala Gly Gly Ile Ile 145 150 155 160
- Gly Val Lys Gly Ala Lys Ile Lys Glu Leu Arg Glu Asn Thr Gln Thr 165 170 175
- Thr Ile Lys Leu Phe Gln Glu Cys Cys Pro His Ser Thr Asp Arg Val 180 185 190
- Val Leu Ile Gly Gly Lys Pro Asp Arg Val Val Glu Cys Ile Lys Ile 195 200 205
- Ile Leu Asp Leu Ile Ser Glu Ser Pro Ile Lys Gly Arg Ala Gln Pro 210 215 220
- Tyr Asp Pro Asn Phe Tyr Asp Glu Thr Tyr Asp Tyr Gly Gly Phe Thr 225 230 235 240
- Met Met Phe Asp Asp Arg Arg Gly Arg Pro Val Gly Phe Pro Met Arg 245 250 255
- Gly Arg Gly Gly Phe Asp Arg Met Pro Pro Gly Arg Gly Arg Pro 260 265 270

Met Pro Pro Ser Arg Arg Asp Tyr Asp Asp Met Ser Pro Arg Arg Gly 275 280 285

Pro Pro Pro Pro Pro Gly Arg Gly Gly Gly Ser Arg Ala 290 295 300

Arg Asn Leu Pro Leu Pro Pro Pro Pro Pro Pro Arg Gly Asp Leu 305 310 315 320

Met Ala Tyr Asp Arg Arg Gly Arg Pro Gly Asp Arg Tyr Asp Gly Met 325 330 335

Val Gly Phe Ser Ala Asp Glu Thr Trp Asp Ser Ala Ile Asp Thr Trp 340 345 350

Ser Pro Ser Glu Trp Gln Met Ala Tyr Glu Pro Gln Gly Gly Ser Gly 355 360 365

Tyr Asp Tyr Ser Tyr Ala Gly Gly Arg Gly Ser Tyr Gly Asp Leu Gly 370 375 380

Gly Pro Ile Ile Thr Thr Gln Val Thr Ile Pro Lys Asp Leu Ala Gly 385 390 395 400

Ser Ile Ile Gly Lys Gly Gly Gln Arg Ile Lys Gln Ile Arg His Glu 405 410 415

Ser Gly Ala Ser Ile Lys Ile Asp Glu Pro Leu Glu Gly Ser Glu Asp 420 425 430

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					aac Asn									_		144
	_	_	_		gct Ala		_	_								192
					aca Thr 70											240
					cgc Arg											288
					aag Lys											336
					act Thr											384
					aat Asn											432
tgc Cys 145	gag Glu	ttg Leu	agg Arg	ctg Leu	ttg Leu 150	att Ile	cat His	cag Gln	agt Ser	cta Leu 155	gca Ala	gga Gly	gga Gly	att Ile	att Ile 160	480
gly ggg	gtc Val	aaa Lys	ggt Gly	gct Ala 165	aaa Lys	att Ile	aaa Lys	gaa Glu	ctt Leu 170	cga Arg	gag Glu	aac Asn	act Thr	caa Gln 175	acc Thr	528
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gtt Val	ctt Leu	att Ile 195	gga Gly	gga Gly	aaa Lys	ccc Pro	gat Asp 200	Arg	gtt Val	gta Val	gag Glu	tgc Cys 205	ata Ile	aag Lys	atc Ile	624
atc Ile	ctt Leu 210	Asp	ctt Leu	ata Ile	tct Ser	gag Glu 215	tct Ser	ccc Pro	atc Ile	aaa Lys	gga Gly 220	Arg	gca Ala	cag Gln	cct Pro	672
tat Tyr 225	Asp	ccc Pro	aat Asn	ttt Phe	tac Tyr 230	Asp	gaa Glu	acc Thr	tat Tyr	gat Asp 235	Tyr	ggt Gly	ggt Gly	ttt Phe	aca Thr 240	720
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_				_	_	_		_	_	_	agc Ser		_	_		864
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											aga Arg					960
											cgt Arg					1008
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gga Gly 385	cct Pro	att Ile	att Ile	act Thr	aca Thr 390	caa Gln	gta Val	act Thr	att Ile	ccc Pro 395	aaa Lys	gat Asp	ttg Leu	gct Ala	gga Gly 400	1200
tct Ser	att Ile	att Ile	ggc	aaa Lys 405	ggt Gly	ggt Gly	cag Gln	cgg Arg	att Ile 410	Lys	caa Gln	atc Ile	cgt Arg	cat His 415	gag Glu	1248
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cgg Arg	atc Ile	att Ile 435	Thr	att Ile	aca Thr	gga Gly	aca Thr 440	Gln	gac Asp	cag Gln	ata Ile	cag Gln 445	Asn	gca Ala	cag Gln	1344
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- Phe Lys Arg Ser Arg Asn Thr Asp Glu Met Val Glu Leu Arg Ile Leu 35 40 45
- Leu Gln Ser Lys Asn Ala Gly Ala Val Ile Gly Lys Gly Gly Lys Asn 50 55 60
- Ile Lys Ala Leu Arg Thr Asp Tyr Asn Ala Ser Val Ser Val Pro Asp 65 70 75 80
- Ser Ser Gly Pro Glu Arg Ile Leu Ser Ile Ser Ala Asp Ile Glu Thr 85 90 95
- Ile Gly Glu Ile Leu Lys Lys Ile Ile Pro Thr Leu Glu Gly Leu 100 105 110
- Gln Leu Pro Ser Pro Thr Ala Thr Ser Gln Leu Pro Leu Glu Ser Asp 115 120 . 125
- Ala Val Glu Cys Leu Asn Tyr Gln His Tyr Lys Gly Ser Asp Phe Asp 130 135 140
- Cys Glu Leu Arg Leu Leu Ile His Gln Ser Leu Ala Gly Gly Ile Ile 145 150 155 160
- Gly Val Lys Gly Ala Lys Ile Lys Glu Leu Arg Glu Asn Thr Gln Thr 165 170 175
- Thr Ile Lys Leu Phe Gln Glu Cys Cys Pro His Ser Thr Asp Arg Val 180 185 190
- Val Leu Ile Gly Gly Lys Pro Asp Arg Val Val Glu Cys Ile Lys Ile 195 200 205
- Ile Leu Asp Leu Ile Ser Glu Ser Pro Ile Lys Gly Arg Ala Gln Pro 210 215 220
- Tyr Asp Pro Asn Phe Tyr Asp Glu Thr Tyr Asp Tyr Gly Gly Phe Thr 225 230 235 . 240
- Met Met Phe Asp Asp Arg Gly Arg Pro Val Gly Phe Pro Met Arg
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- Gly Arg Gly Gly Phe Asp Arg Met Pro Pro Gly Arg Gly Arg Pro 260 265 270

Met Pro Pro Ser Arg Arg Asp Tyr Asp Asp Met Ser Pro Arg Arg Gly Pro Pro Pro Pro Pro Gly Arg Gly Arg Gly Gly Ser Arg Ala 295 Arg Asn Leu Pro Leu Pro Pro Pro Pro Pro Pro Arg Gly Asp Leu 315 310 305 Met Ala Tyr Asp Arg Gly Arg Pro Gly Asp Arg Tyr Asp Gly Met 330 Val Gly Phe Ser Ala Asp Glu Thr Trp Asp Ser Ala Ile Asp Thr Trp Ser Pro Ser Glu Trp Gln Met Ala Tyr Glu Pro Gln Gly Gly Ser Gly Tyr Asp Tyr Ser Tyr Ala Gly Gly Arg Gly Ser Tyr Gly Asp Leu Gly Gly Pro Ile Ile Thr Thr Gln Val Thr Ile Pro Lys Asp Leu Ala Gly 390 395 Ser Ile Ile Gly Lys Gly Gly Gln Arg Ile Lys Gln Ile Arg His Glu Ser Gly Ala Ser Ile Lys Ile Asp Glu Pro Leu Glu Gly Ser Glu Asp Arg Ile Ile Thr Ile Thr Gly Thr Gln Asp Gln Ile Gln Asn Ala Gln Tyr Leu Leu Gln Asn Ser Val Lys Gln Tyr Ala Asp Val Glu Gly Phe 450 <210> 105 <211> 28 <212> DNA <213> Artificial Sequence <223> Description of Artificial Sequence: Synthetic probe <400> 105 28 agactgtgtg tttactgcgt gggaggag <210> 106 <211> 101 <212> DNA

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<400> 106

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      peptide
<400> 121
Ile Ile Pro Thr Leu Glu Glu Tyr Gln His Tyr Lys
         <sub>,</sub> 5
<210> 122
<211> 12
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 122
Leu Phe Gln Glu Cys Cys Pro His Ser Thr Asp Arg
           5
                                      10
```

```
<210> 123
<211> 14
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Synthetic
      peptide
<400> 123
Ile Ile Leu Asp Leu Ile Ser Glu Ser Pro Ile Lys Gly Arg
                  5
<210> 124
<211> 14
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Synthetic
      peptide
<400> 124
Arg Pro Ala Glu Asp Met Glu Glu Glu Gln Ala Phe Lys Arg
<210> 125
<211> 17
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Synthetic
      peptide
<400> 125
Thr Asp Tyr Asn Ala Ser Val Ser Val Pro Asp Ser Ser Gly Pro Glu
                 5
Arg
<210> 126
<211> 17
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Synthetic
      peptide
<400> 126
Thr Asp Tyr Asn Ala Ser Val Ser Val Pro Asp Ser Ser Gly Pro Glu
                  5
                                      10
```

Arg

145

```
<210> 127
<211> 17
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
     peptide
<400> 127
Ala Leu Arg Thr Asp Tyr Asn Ala Ser Val Ser Val Pro Asp Ser Ser
Gly
<210> 128
<211> 460
<212> PRT
<213> Homo sapiens
<400> 128
Met Glu Thr Glu Gln Pro Glu Glu Thr Phe Pro Asn Thr Glu Thr Asn
Gly Glu Phe Gly Lys Arg Pro Ala Glu Asp Met Glu Glu Glu Gln Ala
Phe Lys Arg Ser Arg Asn Thr Asp Glu Met Val Glu Leu Arg Ile Leu
         35
Leu Gln Ser Lys Asn Ala Gly Ala Val Ile Gly Lys Gly Gly Lys Asn
Ile Lys Ala Leu Arg Thr Asp Tyr Asn Ala Ser Val Ser Val Pro Asp
Ser Ser Gly Pro Glu Arg Ile Leu Ser Ile Ser Ala Asp Ile Glu Thr
                                     90
Ile Gly Glu Ile Leu Lys Lys Ile Ile Pro Thr Leu Glu Glu Gly Leu
                                105
Gln Leu Pro Ser Pro Thr Ala Thr Ser Gln Leu Pro Leu Glu Ser Asp
Ala Val Glu Cys Leu Asn Tyr Gln His Tyr Lys Gly Ser Asp Phe Asp
Cys Glu Leu Arg Leu Leu Ile His Gln Ser Leu Ala Gly Gly Ile Ile
```

155

150

- Gly Val Lys Gly Ala Lys Ile Lys Glu Leu Arg Glu Asn Thr Gln Thr 165 170 175
- Thr Ile Lys Leu Phe Gln Glu Cys Cys Pro His Ser Thr Asp Arg Val 180 185 190
- Val Leu Ile Gly Gly Lys Pro Asp Arg Val Val Glu Cys Ile Lys Ile 195 . 200 205
- Ile Leu Asp Leu Ile Ser Glu Ser Pro Ile Lys Gly Arg Ala Gln Pro 210 215 220
- Tyr Asp Pro Asn Phe Tyr Asp Glu Thr Tyr Asp Tyr Gly Gly Phe Thr 225 230 235 240
- Met Met Phe Asp Asp Arg Gly Arg Pro Val Gly Phe Pro Met Arg 245 250 255
- Gly Arg Gly Gly Phe Asp Arg Met Pro Pro Gly Arg Gly Arg Pro 260 265 270
- Met Pro Pro Ser Arg Arg Asp Asp Tyr Asp Asp Met Ser Pro Arg Arg 275 280 285
- Gly Pro Pro Pro Pro Pro Gly Arg Gly Gly Ser Arg Ala Arg Asn 290 295 300
- Leu Pro Leu Pro Pro Pro Pro Pro Pro Arg Gly Gly Asp Leu Met Ala 305 310 315 320
- Tyr Asp Arg Arg Gly Arg Pro Gly Asp Arg Tyr Asp Gly Met Val Gly
- Phe Ser Ala Asp Glu Thr Trp Asp Ser Ala Ile Asp Thr Trp Ser Pro 340 345 350
- Ser Glu Trp Gln Met Ala Tyr Glu Pro Gln Gly Gly Ser Gly Tyr Asp 355 360 365
- Tyr Ser Tyr Ala Gly Gly Arg Gly Ser Tyr Gly Asp Leu Gly Gly Pro 370 375 380
- Ile Ile Thr Thr Gln Val Thr Ile Pro Lys Asp Leu Ala Gly Ser Ile 385 390 395 400
- Ile Gly Lys Gly Gly Gln Arg Ile Lys Gln Ile Arg His Glu Gly Ala 405 410 415
- Ser Ile Lys Ile Asp Glu Pro Leu Glu Gly Ser Glu Asp Arg Ile Ile 420 425 430
- Thr Ile Thr Gly Thr Gln Asp Gln Ile Gln Asn Ala Gln Tyr Leu Leu 435 440 445
- Gln Asn Ser Val Lys Gln Tyr Ser Gly Lys Phe Phe 450 455 460

<210> 129

<211> 461

<212> PRT

<213> Homo sapiens

<400> 129

Met Glu Thr Glu Gln Pro Glu Glu Thr Phe Pro Asn Thr Glu Thr Asn 1 5 10 15

Gly Glu Phe Gly Lys Arg Pro Ala Glu Asp Met Glu Glu Glu Gln Ala 20 25 30

Phe Lys Arg Ser Arg Asn Thr Asp Glu Met Val Glu Leu Arg Ile Leu 35 40 45

Leu Gln Ser Lys Asn Ala Gly Ala Val Ile Gly Lys Gly Gly Lys Asn 50 55 60

Ile Lys Ala Leu Arg Thr Asp Tyr Asn Ala Ser Val Ser Val Pro Asp 65 70 75 80

Ser Ser Gly Pro Glu Arg Ile Leu Ser Ile Ser Ala Asp Ile Glu Thr 85 90 95

Ile Gly Glu Ile Leu Lys Lys Ile Ile Pro Thr Leu Glu Glu Gly Leu 100 105 110

Gln Leu Pro Ser Pro Thr Ala Thr Ser Gln Leu Pro Leu Glu Ser Asp 115 120 125

Ala Val Glu Cys Leu Asn Tyr Gln His Tyr Lys Gly Ser Asp Phe Asp 130 135 140

Cys Glu Leu Arg Leu Leu Ile His Gln Ser Leu Ala Gly Gly Ile Ile 145 150 155 160

Gly Val Lys Gly Ala Lys Ile Lys Glu Leu Arg Glu Asn Thr Gln Thr 165 170 175

Thr Ile Lys Leu Phe Gln Glu Cys Cys Pro His Ser Thr Asp Arg Val

Val Leu Ile Gly Gly Lys Pro Asp Arg Val Val Glu Cys Ile Lys Ile 195 200 205

Ile Leu Asp Leu Ile Ser Glu Ser Pro Ile Lys Gly Arg Ala Gln Pro 210 215 220

Tyr Asp Pro Asn Phe Tyr Asp Glu Thr Tyr Asp Tyr Gly Gly Phe Thr 225 230 235 240

Met Met Phe Asp Asp Arg Gly Arg Pro Val Gly Phe Pro Met Arg

Gly Arg Gly Gly Phe Asp Arg Met Pro Pro Gly Arg Gly Arg Pro 260 265 270 Met Pro Pro Ser Arg Arg Asp Asp Tyr Asp Asp Met Ser Pro Arg Arg 275 280 285

Gly Pro Pro Pro Pro Pro Gly Arg Gly Gly Ser Arg Ala Arg Asn 290 295 300

Leu Pro Leu Pro Pro Pro Pro Pro Pro Arg Gly Gly Asp Leu Met Ala 305 310 315 320

Tyr Asp Arg Arg Gly Arg Pro Gly Asp Arg Tyr Asp Gly Met Val Gly 325 330 335

Phe Ser Ala Asp Glu Thr Trp Asp Ser Ala Ile Asp Thr Trp Ser Pro 340 345 350

Ser Glu Trp Gln Met Ala Tyr Glu Pro Gln Gly Gly Ser Gly Tyr Asp 355 360 365

Tyr Ser Tyr Ala Gly Gly Arg Gly Ser Tyr Gly Asp Leu Gly Gly Pro 370 . 375 380

Ile Ile Thr Thr Gln Val Thr Ile Pro Lys Asp Leu Ala Gly Ser Ile 385 390 395 400

Ile Gly Lys Gly Gly Gln Arg Ile Lys Gln Ile Arg His Glu Gly Ala 405 410 415

Ser Ile Lys Ile Asp Glu Pro Leu Glu Gly Ser Glu Asp Arg Ile Ile 420 425 430

Thr Ile Thr Gly Thr Gln Asp Gln Ile Gln Asn Ala Gln Tyr Leu Leu 435 440 445

Gln Asn Ser Val Lys Gln Tyr Ala Asp Val Glu Gly Phe 450 455 460

<210> 130

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 130

Arg Pro Ala Glu Asp Met Glu Glu Glu Gln Ala Phe Lys Arg Ser Arg 1 5 10 15

Asn Thr Asp Glu Met Val Glu Leu Arg 20 25

<210> 131

<211> 17

<212> PRT

<213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence: Synthetic
      peptide
Ala Leu Arg Thr Asp Tyr Asn Ala Ser Val Ser Val Pro Asp Ser Ser
                  5
Gly
<210> 132
<211> 24
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
     peptide
<400> 132
Gly Ser Asp Phe Asp Cys Glu Leu Arg Leu Leu Ile His Gln Ser Leu
                                    10
Ala Gly Gly Ile Ile Gly Val Lys
<210> 133
<211> 22
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Synthetic
      peptide
<400> 133
Leu Phe Gln Glu Cys Cys Pro His Ser Thr Asp Arg Val Val Leu Ile
Gly Gly Lys Pro Asp Arg
             20
<210> 134
<211> 14
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Synthetic
      peptide
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```
<400> 134
Ile Ile Leu Asp Leu Ile Ser Glu Ser Pro Ile Lys Gly Arg
                 5
                                     10
<210> 135
<211> 21
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
    peptide
<400> 135
Asn Leu Pro Leu Pro Pro Pro Pro Pro Pro Arg Gly Gly Asp Leu Met
                                    10
Ala Tyr Asp Arg Arg
            20
<210> 136
<211> 11
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      peptide
<400> 136
Ile Asp Glu Pro Leu Glu Gly Ser Glu Asp Arg
                  5
```